



Martha Lake Iron Enhanced Drainage System



Clean Water Funds: 2012

Clean Water Grant	\$32,201
Leveraged Funds*	\$8,500
Total Project Budget	\$40,701

* Leveraged Funds include required 25% local match

Target Water:

Martha Lake and Charlotte Lake

Project Sponsor:

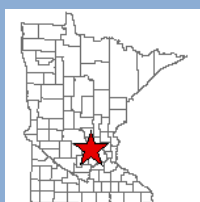
Wright Soil and Water Conservation District

Grant Period:

January 2012—December 2013

Project Contact:

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C12-191 - Conservation Drainage

Project Narrative

Due to its high water quality, protecting Martha Lake is a priority for Wright County. A monitoring study of the tile system outlet that flows into Lake Martha revealed high amounts of dissolved phosphorus were entering the lake through the tile system. This validated the concerns of the Lake Martha Lake Association.

This purpose of this project will be to reduce the dissolved phosphorus loads entering Martha Lake. Though the technical assistance from the University of Minnesota, an iron enhanced sand infiltration trench will be installed to treat the tile discharge before it reaches Martha Lake. Literature supports an 80% reduction of phosphorus is expected from this proposed practice. Once the trench is installed, monitoring and chemical analysis will be conducted to evaluate the effectiveness of this project.



Proposed Outcomes:

Project Outputs:

Iron enhances sand filter - Martha Lake and Charlotte Lake

Proposed Reductions:

12 lbs/year Phosphorus

Actual Outcomes:

Project in Progress

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